# Translation

# PATENT COOPERATION TREATY



# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 02S1293P	FOR FURTHER ACTION	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/	date (day/month/year) Priority date (day/month/year)			
PCT/JP2003/000039	PCT/JP2003/000039 07 January 2003 (07.01.2003) 08 January 2002 (08.01.				
International Patent Classification (IPC) or national classification and IPC H01L 21/68, B65G 49/06, 49/07					
Applicant TOKYO ELECTRON LIMITED					
This international preliminary examinand is transmitted to the applicant action.	ination report has been prepared cording to Article 36.	by this Intern	ational Preliminary Examining Authority		
2. This REPORT consists of a total of	9 sheets, including	ng this cover s	heet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a tot	tal of 10 sheets.				
3. This report contains indications relat	ing to the following items:				
I Basis of the report					
II Priority					
III Non-establishment o	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
IV Lack of unity of inve	ention				
V Reasoned statement citations and explana	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents c	VI Certain documents cited				
VII Certain defects in the	VII Certain defects in the international application				
VIII Certain observations on the international application					
		-			
Date of submission of the demand Date of completion of this report			f this report		
29 July 2003 (29.07.2003)		07 A	April 2004 (07.04.2004)		
Name and mailing address of the IPEA/JP	Author	Authorized officer			
Facsimile No.	Teleph	Telephone No.			

Form PCT/IPEA/409 (cover sheet) (July 1998)

International application No.

PCT/JP2003/000039

1. With regard to the elements of the international application:*							
the international application as originally filed	į						
the description:	:						
pages 1-33 , as origina	ally filed						
pages, filed with the	-						
pages, filed with the letter of							
the claims:							
noger 10	-11v filed						
pages , as amended (together with any statement under A	-						
pages 1, 4, 7, 9-13, 17, 19-21 , filed with the							
pages 5, 27-36 , filed with the letter of 08 January 2004 (08.01.2	.004)						
the drawings:	-						
, , , , , , , , , , , , , , , , , , , ,							
pages, filed with the pages, filed with the letter of,	demand						
the sequence listing part of the description:	}						
pages, as origin							
pages, filed with the							
pages, filed with the letter of	<u> </u>						
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language	- 1						
the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).							
the language of publication of the international application (under Rule 48.3(b)).							
the language of the translation furnished for the purposes of international preliminary examination (under Rule 5 or 55.3).							
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the interpreliminary examination was carried out on the basis of the sequence listing:	national						
contained in the international application in written form.							
filed together with the international application in computer readable form.	ļ						
furnished subsequently to this Authority in written form.							
furnished subsequently to this Authority in computer readable form.							
international application as filed has been furnished.							
The statement that the information recorded in computer readable form is identical to the written sequence lis been furnished.	ting has						
4. The amendments have resulted in the cancellation of:							
the description, pages	i						
the claims, Nos2, 3, 6, 8, 14-16, 22							
the drawings, sheets/fig	ĺ						
5. This report has been established as if (some of) the amendments had not been made, since they have been consider beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ed to go						
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are ref in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rul and 70.17).	erred to e 70.16						
** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							

International application No.
PCT/JP03/00039

I. In response to the invitation to restrict or pay additional fees the applicant bas:  □ restricted the claims. □ paid additional fees. □ paid addit	
restricted the claims.    paid additional fees   paid additional fees	IV. Lack of unity of invention
paid additional fees under protest.  paid additional fees under protest.  In neither restricted nor paid additional fees.  This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.  This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is complied with.  In complied with for the following reasons:  The common matter of claims 1, 4, 5, 7, 9-13, 17-21, and 23-36 is a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is substantially the same side.  Nevertheless, after investigation, it is found that this carrying mechanism is disclosed in the document EP, 1030347, A1 (USHIODENKI K.K.), 23 August 2000 (23.08.00), paragraphs [0034]-[0043]; Fig. 1, and is clearly not novel.  As a result, a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is substantially the same side does not exceed the scope of prior art, so this common matter (a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially the same side does not exceed the scope of prior art, so this common matter (a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially the same side does not exceed the scope of prior art, so this common matter (a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms is substantially the same side does not exceed the scope of prior art, so this common matter that could be considered of special technical significance in the sense o	1. In response to the invitation to restrict or pay additional fees the applicant has:
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[0043]; Fig. 1, and is clearly not novel.  As a result, a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is substantially the same side does not exceed the scope of prior art, so this common matter (a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is substantially the same side) does not have special technical significance in the sense of PCT Rule 13.2, Section 2.  Also, there is no matter common to all of the claims.  There is no other common matter that could be considered of special technical significance in the sense of PCT Rule 13.2, Section 2, so there is no technical relationship in the sense of PCT Rule 13 among the other inventions.  Therefore claims 1, 4, 5, 7, 9-13, 17-21, and 23-36 clearly do not satisfy the requirement of unity of invention.  As will be described next, this international examining authority found two or more inventions in this international application.	wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is
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There is no other common matter that could be considered of special technical significance in the sense of PCT Rule 13.2, Section 2, so there is no technical relationship in the sense of PCT Rule 13 among the other inventions.  Therefore claims 1, 4, 5, 7, 9-13, 17-21, and 23-36 clearly do not satisfy the requirement of unity of invention.  As will be described next, this international examining authority found two or more inventions in this international application.  4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:	projection direction of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is substantially the same side does not exceed the scope of prior art, so this common matter (a carrying mechanism wherein a carrying base table has two holding arms, the holding surfaces of both holding arms are substantially positioned on the same plane, and the projection direction of both holding arms is substantially the same side) does not have special
As will be described next, this international examining authority found two or more inventions in this international application.  4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:	There is no other common matter that could be considered of special technical significance in the sense of PCT Rule 13.2, Section 2, so there is no technical relationship in the sense of PCT Rule
<ol> <li>Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:</li> </ol>	Therefore claims 1, 4, 5, 7, 9-13, 17-21, and 23-36 clearly do not satisfy the requirement of unity of invention.
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	all parts.
the parts relating to claims Nos.	the parts relating to claims Nos.

International application No.

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP03/00039

#### Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

#### Continuation of Box IV:

- I) Claims 1, 4, 10, 12, 17-21, 23, 24
- II) Claims 5, 7
- III) Claim 9
- IV) Claims 27-36

Furthermore, claims 11 and 13 are dependent on two of the aforesaid inventions, and claims 25 and 26 have constitutions that are unclear in specifying inventions, so we cannot study the requirement of unity.

We were able to investigate all claims that can be investigated without requesting additional fees, so payment of additional fees was not requested.

Form PCT/IPEA/409 (Supplemental Box) (July 1998)

PCT/JP03/00039

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

atement			
Novelty (N)	Claims	1, 4, 5, 7, 9-13, 17-21, 23-36	YES
	Claims		NO
Inventive step (IS)	Claims	1, 4, 9, 10, 12, 17-21, 23, 24, 31	YES
	Claims	5, 7, 11, 13, 25-30, 32-36	NO
Industrial applicability (IA)	Claims	1, 4, 5, 7, 9-13, 17-21, 23-36	YES
	Claims		NO

### 2. Citations and explanations

Document 1: EP, 1030347, A1 (USHIODENKI K.K.), 23 August 2000

Document 2: US, 4660464, A (SANGYO KOGYO K.K.), 28 April 1987

Document 3: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 105392/1986 (Laid-open No. 13682/1988) (SANYO ELECTRIC CO., LTD.), 29 January 1988

Document 4: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 71959/1990 (Laid-open No. 29380/1992) (AISAN INDUSTRY CO., LTD.), 09 March 1992

Document 5: JP, 9-197008, A (SANYO ELECTRIC CO., LTD.), 31 July 1997

Document 6: JP, 10-308430, A (DAINIPPON SCREEN CO., LTD.), 17 November 1998

Document 7: JP, 2001-148410, A (TOKYO ELECTRON LTD.), 29 May 2001

Document 8: JP, 7-321178, A (HITACHI, LTD.), 08 December 1995

Document 9: US, 5838121, A (APPLIED MATERIALS, INC.), 17 November 1998

The subject matter of claim 5 does not involve an inventive step on account of document 1 cited in the ISR (paragraphs [0034]-[0043], Fig. 1) and newly cited document 2 (full text, all drawings).

Employing document 2's clean tunnel 21, which is provided with air routes 24c and 24s and exhaust port 27, in the work carrying mechanism RA of document 1 for transport to a processing apparatus would be easy for a person skilled in the art. Also, achieving two pin set degrees of freedom and disposition with a constitution that provided it on a second base table 2 that was linearly moveable as in document 1, has the two holding surfaces in substantially the same plane, and makes them project in the same direction would be easy for a person skilled in the art.

The subject matter of claim 7 does not involve an inventive step on account of document 1 and document 2 and document 3 cited in the ISR (page 5, line 9 to page 8, line 16; Figs. 1-3).

Making the three-axis coaxial mechanism of document 3 and using a drive mechanism that drives to correspond to three degrees of freedom as the drive mechanism for two arms that rotate and slide the base table would be easy for a person skilled in the art.

Form PCT/ IPEA/409 (Box V) (July 1998)

International application No.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP03/00039

Supplemental Box

1

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

The subject matter of claim 11 does not involve an inventive step on account of document 1 and document 2 and document 4 cited in the ISR (page 8, line 11 to page 9, line 13; Fig. 1, Fig. 3, Fig. 4).

Sliding in the converging direction as in document 4 as the drive mechanism for two sliding arms would be easy for a person skilled in the art.

The subject matter of claim 13 does not involve an inventive step on account of document 1 and document 5 cited in the ISR (column 3, lines 10-11; column 3, lines 22-29; column 5, lines 2-9; Fig. 1, Fig. 6).

Sliding in the dispersing direction as in document 5 as the drive mechanism for two sliding arms would be easy for a person skilled in the art.

The subject matter of claim 25 does not involve an inventive step on account of newly cited document 6 (paragraphs [0072]-[0090], Fig. 5, Fig. 6) and newly cited document 7 (paragraphs [0090]-[0078], Fig. 13).

Document 6 describes the point about providing hands equipped with substrate holding surfaces at the tips of two intermediate arms respectively, having the substrate holding surfaces at nearly the same height, and projecting handles at substantially the same side.

Document 7 describes the point about driving a holding member 67 by a motor 94 disposed in a multi-articulated arm. Using this in document 7's hand would be easy for a person skilled in the art.

The subject matter of claim 26 does not involve an inventive step on account of document 6 and document 7.

Document 6 describes a plurality of processing units connected in parallel for the linear transport route 201.

The subject matter of claims 27 and 29 does not involve an inventive step on account of document 6 and newly cited document 8 (full text, all drawings).

Document 8 describes an arm equipped with two hands that simultaneously carry two substrates. Using two separate arms that can be rotated by column 82, as described in document 6, instead of this arm and driving them simultaneously in order to simultaneously carry substrates would be easy for a person skilled in the art.

The subject matter of claim 28 does not involve an inventive step on account of document 6 and document 8 and newly cited document 9 (full text, all drawings).

Document 6 describes the point about a carriage 302 linearly moving along a linear transport route 201.

Document 9 describes the point about simultaneously extending and simultaneously pulling a wafer blade assembly 540 when a robot 500 rotates centered on axis A, so simultaneously extending and contracting the arm while doing the carriage's linear movement described in document 6 would be easy for a person skilled in the art.

The subject matter of claim 30 does not involve an inventive step on account of document 6 and document 8.

Document 8 describes the point that it is possible to exhaust a load lock chamber 14 that is provided together with the processing chamber around a transport chamber 10 from atmosphere pressure status to vacuum status, and the point that a gate valve with the transport chamber is opened after the load lock chamber is exhausted to vacuum, so it is found that the transport chamber can be exhausted to vacuum.

International application No.

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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#### Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

#### Continuation of Box V:

The subject matter of claim 32 does not involve an inventive step on account of document 6, document 8 and document 4.

Sliding in the converging direction as described in document 4 as a drive mechanism for two arms would be easy for a person skilled in the art.

The subject matter of claim 33 does not involve an inventive step on account of document 6, document 8 and document 5.

Sliding in the dispersing direction as described in document 5 as a drive mechanism for two arms would be easy for a person skilled in the art.

The subject matter of claim 34 does not involve an inventive step on account of document 6, document 8 and document 9.

Document 9 describes the point about simultaneously extending and simultaneously pulling the wafer blade assembly 540 when a robot 500 rotates centered on axis A.

The subject matter of claim 35 does not involve an inventive step on account of document 6, document 8 and document 9.

Document 6 describes the point about the carriage 302 linearly moving a linear transport route 201.

Document 9 describes the point about simultaneously extending and simultaneously pulling the wafer blade assembly 540 when the robot 500 rotates centered on axis A, so simultaneously extending and contracting the arm while doing the carriage's linear movement described in document 6 would be easy for a person skilled in the art.

The subject matter of claim 36 does not involve an inventive step on account of document 6 and document 8.

Document 8 describes the point about simultaneously extracting two objects to be processed from a load lock chamber and simultaneously sending them to a processing apparatus.

Using two processing apparatuses instead of a processing apparatus that has two processing stages separated by a partition plate as described in document 8 would be easy for a person skilled in the art.

The subject matter of claims 1, 4, 9, 10, 12, 17-21, 23, 24, and 31 is not described in any of the documents cited in the ISR and appears to be non-obvious to a person skilled in the art.

International application No.
PCT/JP03/00039

VII. Certain defects in the internat	VII. Certain defects in the international application				
The following defects in the form or contents of the international application have been noted:					
The invention of claim 7 cites the invention of claim 6, which was deleted; this is inappropriate.					
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International application No. PCT/JP03/00039

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims,	, description	, and drawings or on	the question v	whether the c	laims are i	iully
supported by the description, are made:		_	-			

The invention of claims 25 and 26 says "said carrying base table" but there is no previous reference to a carrier base table so "said" is inappropriate. Also, the constituent relationship of the carrier base table with other members is unclear.